MONTHLY PROGRESS REPORT Contractor Name:			
		Contract/Purchase Order No.	Task Order No.
		W9132T-10-C-0008 (prime contract no.)	
		Project Title:	
Design and Simulation of Intelligent Control Architecture for Military Microgrids			
Period Covered:			
July 1 2010 – August 1, 2010			
POC/COR (Reference Paragraph 5 of the SOW):			
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Achievements (Describe by task. Add additional tasks, if needed.):			
task numbers refer to tasks in Odyssian's original contract			
Task II: Model and Simulate Intelligent Microgrid			
1) Completed and incident and improve and discount for LIWIM incomes and			
1) Completed preliminary simPower modeling blocks for UWM inverter and			
inverter controlled ideal generator, diesel generator, and battery storage.			
 2) Began testing of simPower blocks and microgrid simulation. 3) Preliminary simulation results shown to Odyssian on July 30th, 2010 			
5) Fleminiary simulation results shown to Odyssian on July 30, 2010			
Task III: Distributed Control Algorithm Development			
1) Completed design of event-triggered dispatch algorithm.			
2) Presentation of event-triggered dispatch paper at 2010 American Control Conference			
P. Wan and M.D. Lemmon, Optimal power flow in microgrids using event-triggered			
optimization, American Control Conference, Baltimore, USA, Jun 29-July2, 2010			
Task VI: Develop Wireless Communication			
No achievements this month.			
Task VII: Develop Wireless Distributed Control			
No achievements this month			
Problems Encountered (Describe by task. Add additional tasks, if needed):			
Task II: None			
Task III: None			

Task VI: None
Task VII: None

Open Items (List items that require action by the Contractor or the Government):s No open items

Summary Assessment and Forecast (Provide an overall assessment of the work and a forecast of contract completion):

The objective for this reporting period was to translate earlier simulation models for the CERTS inverter into simPower blocks. This objective has been completed and preliminary models for inverter controlled battery storage and diesel generators have been built.

The work planned for the next reporting period will build a simPower simulation of the UWM mesh microgrid that was provided by UWM at the February 2009 project meeting.

Notre Dame's year 1 tasks are all on track for timely completion.